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PTO/SB/08A (07-05)

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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## Complete if Known

Application Number	10/661,836
Filing Date	September 12, 2003
First Named Inventor	John Moon
Art Unit	1743
Examiner Name	Hyun, Paul Sang Hwa
Attorney Docket Number	IP-0018-US (830-0018US1)

Sheet 1 of 16

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	3891302	Jun-75	Dabby et al.	
	A2	3916182	Oct-75	Dabby et al	
	A3	3968476	Jul-76	McMahon	
	A4	4011435	Mar-77	Phelps	
	A5	4023010	May-77	Horst et al	
	A6	4053228	Oct-77	Schiller	
	A7	4131337	Dec-78	Moraw et al	
	A8	4168146	Sep-79	Grubb et al	
	A9	4301139	Nov-81	Feingers et al	
	A10	4386274	May-83	Altshuler	
	A11	3891302	Jun-75	Dabby et al.	
	A12	3916182	Oct-75	Dabby et al	
	A13	3968476	Jul-76	McMahon	
	A14	4445229	Apr-84	Tasto et al	
	A15	4447546	May-84	Hirschfeld	
	A16	4560881	Dec-85	Briggs	
	A17	4562157	Dec-85	Lowe et al	
	A18	4647544	Mar-87	Nicoli et al	
	A19	4678752	Jul-87	Thorne et al	
	A20	4685480	Aug-87	Eck	
	A21	4690907	Sep-87	Hibino et al	
	A22	4716121	Dec-87	Block et al	
	A23	4725110	Feb-88	Glenn et al.	
	A24	4740468	Apr-88	Weng et al	
	A25	4740688	Apr-88	Edwards	
	A26	4748110	May-88	Paul	
	A27	4767719	Aug-88	Finlan	
	A28	4807950	Feb-89	Glenn et al.	
	A29	4816659	Mar-89	Bianco et al	
	A30	4841140	Jun-89	Sullivan et al	

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear
	B1	4877747	Oct-89	Stewart	
	B2	4880752	Nov-89	Keck et al	
	B3	4882288	Nov-89	North et al	
	B4	4921805	May-90	Gebeyehu et al	
	B5	4931384	Jun-90	Layton et al	
	B6	4937048	Jun 26, 1990	Masahiko, Sakai, etal	
	B7	4958376	Sep-90	Leib	
	B8	4992385	Feb-91	Godfrey	
	B9	5003600	Mar-91	Deason	
	B10	5030558	Jul-91	Litman et al	
	B11	5033826	Jul-91	Kolner	
	B12	5065008	Nov 12, 1991	Hakamata, Kazuo, etal	
	B13	5067155	Nov-91	Bianco et al	
	B14	5081012	Jan-92	Flanagan et al	
	B15	5089387	Feb-92	Tsay et al	
	B16	5090807	Feb-92	Tai	
	B17	5095194	Mar-92	Barbanell	
	B18	5100238	Mar-92	Nailor et al	
	B19	5104209	Apr-92	Hill et al.	
	B20	5115121	May-92	Bianco et al	
	B21	5118608	Jun-92	Layton et al	
	B22	5129974	Jul 14, 1992	Aurenius, Carl A.D.	
	B23	5138468	Aug-92	Barbanell	
	B24	5141848	Aug-92	Donovan et al	
	B25	5144461	Sep-92	Horan	
	B26	5166813	Nov-92	Metz	
	B27	5192980	Mar 9, 1993	Dixon, Arthur E., etal	
	B28	5196350	Mar-93	Backman et al	
	B29	5200794	Apr-93	Nishiguma et al	
	B30	5218594	Jun-93	Tanno, Naohiro	

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	C1	5291006	Mar-94	Nishiguma et al	
	C2	5291027	Mar-94	Kita et al	
	C3	5300764	Apr-94	Hoshino et al	
	C4	5307332	Apr-94	Tinet	
	C5	5310686	May-94	Sawyers et al	
	C6	5342790	Aug-94	Levine et al	
	C7	5349442	Sep-94	Deason et al	
	C8	5352582	Oct-94	Lichtenwalter et al	
	C9	5364797	Nov-94	Olson et al	
	C10	5367588	Nov-94	Hill et al.	
	C11	5372783	Dec-94	Lackie	
	C12	5374816	Dec-94	Bianco	
	C13	5374818	Dec-94	Bianco et al	
	C14	5388173	Feb-95	Glenn	
	C15	5394234	Feb-95	Bianco et al	
	C16	5395558	May-02	Duveneck	
	C17	5426297	Jun-95	Dunphy et al.	
	C18	5442433	Aug-95	Hoshino et al	
	C19	5448659	Sep-95	Tsutsui et al	
	C20	5451528	Sep-95	Raymoure et al	
	C21	5455178	Oct-95	Fattinger	
	C22	5461475	Oct-95	Lerner et al	
	C23	5465176	Nov-95	Bianco et al	
	C24	5468649	Nov-95	Shah et al	
	C25	5506674	Apr-96	Inoue et al	
	C26	5514785	May-96	Van Ness et al	
	C27	5528045	Jun-96	Hoffman et al	
	C28	5547849	Aug-96	Baer et al	
	C29	5559613	Sep-96	Deveaud-Pledran et al.	
	C30	5585639	Dec-96	Dorsal et al	
	C31	5587832	12/24/1996	Krause, Andrew W.	
	C32	5607188	Mar-97	Bahns et al	

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	D9	5364797	Nov-94	Olson et al	
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	D17	5426297	Jun-95	Dunphy et al.	
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	D20	5451528	Sep-95	Raymoure et al	
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	D30	5585639	Dec-96	Dorsal et al	
	D31	5587832	12/24/1996	Krause, Andrew W.	
	D32	5607188	Mar-97	Bahns et al	

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	E1	5621515	Apr-97	Hoshino	
	E2	5624850	Apr-97	Kumar et al	
	E3	5625472	Apr-97	Mizrahi et al.	
	E4	5627040	May-97	Bierre et al	
	E5	5627663	May-97	Horan et al	
	E6	5633724	May-97	King et al	
	E7	5663790	Sep-97	Ekstrom et al	
	E8	5667976	Sep-97	Van Ness et al	
	E9	5671308	Sep-97	Inoue et al	
	E10	5712912	Jan-98	Tomko et al	
	E11	5721435	Feb-98	Troll	
	E12	5729365	Mar-98	Sweatt	
	E13	5736330	Apr-98	Fulton	
	E14	5742432	Apr-98	Bianco	
	E15	5745617	Apr-98	Starodubov et al.	
	E16	5759778	Jun-98	Li et al	
	E17	5760961	Jun-98	Tompkin et al	
	E18	5766956	Jun-98	Groger et al	
	E19	5776694	Jul-98	Sheiness et al	
	E20	5793502	Aug-98	Bianco et al	
	E21	5798273	Aug-98	Shuler et al	
	E22	5799231	Aug-98	Gates et al	
	E23	5801857	Sep-98	Heckenkamp et al	
	E24	5804384	Sep-98	Muller et al	
	E25	5812272	Sep 22, 1998	Hewlett-Packard Co.	
	E26	5822472	Oct-98	Danielzik et al	
	E27	5824478	Oct-98	Muller	
	E28	5824557	Oct-98	Burke et al	
	E29	5831698	Nov-98	Depp et al	
	E30	5837475	Nov-98	Dorsal et al	
	E31	5841555	Nov-98	Bianco et al	
	E32	5846737	Dec-98	Kang	

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	F1	5874187	Feb-99	Colvin et al	
	F2	5895750	Apr-99	Mushahwar et al	
	F3	5922550	Jul-99	Everhart et al	
	F4	5925562	Jul-99	Nova et al	
	F5	5925878	Jul-99	Challener	
	F6	5945679	Aug-99	Dorsal et al	
	F7	5972542	Oct-99	Starodubov	
	F8	5976896	Nov-99	Kumar et al	
	F9	5981166	Nov-99	Mandecki	
	F10	5986838	Nov-99	Thomas, III	
	F11	5989923	Nov-99	Lowe et al	
	F12	5998796	Dec-99	Liu et al	
	F13	6001510	Dec-99	Meng et al	
	F14	6017754	Jan-00	Chesnut et al	
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	F17	6036807	Mar-00	Brongers	
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	F19	6046925	Apr-00	Tsien et al	
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	F21	6057107	May-00	Fulton	
	F22	6060256	May-00	Everhart et al	
	F23	6067167	May-00	Atkinson et al	
	F24	6067392	May-00	Wakami et al	
	F25	6078048	Jun-00	Stevens et al	
	F26	6084995	Jul-00	Clements et al.	
	F27	6087186	Jul-00	Cargill et al	
	F28	6096496	Aug-00	Frankel et al	

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				Art Unit	1743
				Examiner Name	Hyun, Paul Sang Hwa
				Attorney Docket Number	IP-0018-US (830-0018US1)
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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear
	G1	6096596	Aug-00	Gonzalez	
	G2	6097485	Aug-00	Lievan	
	G3	6103535	Aug-00	Pilevar et al	
	G4	6118127	Sep-00	Liu et al	
	G5	6128077	Oct-00	Jovin et al	
	G6	6137931	Oct-00	Ishikawa et al.	
	G7	6143247	Nov-00	Sheppard	
	G8	6156501	Dec-00	McGall et al.	
	G9	6160240	Dec-00	Momma et al	
	G10	6160656	Dec-00	Mossberg et al	
	G11	6164548	Dec-00	Curiel	
	G12	6165592	Dec-00	Berger et al	
	G13	6165648	Dec-00	Colvin et al	
	G14	6194563	Feb-01	Cruickshank	
	G15	6204969	Mar-01	Jang	
	G16	6218194	Apr-01	Lyndin et al	
	G17	6221579	Apr-01	Everhart et al	
	G18	6229635	May-01	Wulf	
	G19	6229827	May-01	Fernald et al.	
	G20	6229941	May-01	Yoon et al.	
	G21	6259450	Jul-01	Chiabrera et al	
	G22	6268128	Jul-01	Collins et al	
	G23	6277628	Aug-01	Johann et al	
	G24	6284459	Sep-01	Nova et al	

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	H1	6285806	Sep-01	Kersey et al.	
	H2	6288220	Sep-01	Kambara et al	
	H3	6292282	Sep-01	Mossberg et al	
	H4	6292319	Sep-01	Thomas, III	
	H5	6301047	Oct-01	Hoshino et al	
	H6	6304263	Oct-01	Chiabrera et al	
	H7	6306587	Oct-01	Royer et al	
	H8	6309601	Oct-01	Juncosa et al	
	H9	6312961	Nov-01	Voirin et al	
	H10	6313771	Nov-01	Munroe et al	
	H11	6314220	Nov-01	Mossberg et al	
	H12	6319668	Nov-01	Nova et al	
	H13	6322932	Nov-01	Colvin et al	
	H14	6329963	Dec-01	Chiabrera et al	
	H15	6331273	Dec-01	Nova et al	
	H16	6340588	Jan-02	Nova et al	
	H17	6352854	Mar-02	Nova et al	
	H18	6355198	Mar-02	Kim et al	
	H19	6356681	Mar-02	Chen et al.	
	H20	6361958	Mar-02	Shieh et al	
	H21	6363097	Mar-02	Linke et al.	
	H22	6371370	Apr-02	Sadler	
	H23	6372428	Apr-02	Nova et al	
	H24	6391562	May-02	Kambara et al	

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	11	6395558	May 28, 2002	Duveneck, G. L., et al	
	12	6399295	Jun-02	Kaylor et al	
	13	6399935	Jun-02	Jovin et al	
	14	6403320	Jun-02	Read et al.	
	15	6406841	Jun-02	Lee et al	
	16	6406848	Jun-02	Bridgham et al	
	17	6416714	Jul-02	Nova et al	
	18	6416952	Jul-02	Pirrung et al.	
	19	6417010	Jul-02	Cargill et al	
	110	6428707	Aug-02	Berg et al	
	111	6428957	Aug-02	Delenstarr	
	112	6429022	Aug 6, 2002	Kunz, R., et al	
	113	6433849	Aug-02	Lowe	
	114	6436651	Aug-02	Everhart et al	
	115	6440667	Aug-02	Fodor et al.	
	116	6456762	Sep-02	Nishiki et al.	
	117	6462770	Oct-02	Cline	
	118	6489606	Dec-02	Kersey et al	
	119	6496287	Dec-02	Seiberle et al	
	120	6506342	Jan-03	Frankel	
	121	6515753	Feb-03	Maher et al	
	122	6522406	Feb-03	Rovira et al	
	123	6524793	Feb-03	Chandler et al	
	124	6533183	Mar-03	Aasmul	

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	J1	6544739	Apr-03	Fodor et al.	
	J2	6560017	May-03	Bianco	
	J3	6565770	May-03	Mayer et al	
	J4	6576424	Jun-03	Fodor et al.	
	J5	6592036	Jul-03	Sadler	
	J6	6594421	Jul-03	Johnson et al	
	J7	6609728	Aug-03	Voerman et al	
	J8	6613581	Sep-03	Wada et al	
	J9	6618342	Sep-03	Johnson et al	
	J10	6622916	Sep-03	Bianco	
	J11	6628439	Sep-03	Shiozawa et al	
	J12	6632655	Oct-03	Mehta et al	
	J13	6635470	Oct-03	Vann	
	J14	6635863	Oct-03	Nihommori et al	
	J15	6646243	Nov-03	Pirrung et al.	
	J16	6657758	Dec-03	Garner	
	J17	6678429	Jan-04	Mossberg et al	
	J18	6689316	Feb-04	Blyth et al	
	J19	6692031	Feb-04	McGrew	
	J20	6692912	Feb-04	Boles et al	
	J21	6982996	May-01	Bailey, T, etal	
	J22	7092160	Aug-06	Putnam et al	
	J23	7106513	Sep-06	Moon et al	
	J24	7126755	Oct-06	Moon et al	

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	K1	2002039732	Jan-02	Sebotini, David M.	
	K2	20020022273	Jul-02	Empedocles et al	
	K3	20020025534	Feb-02	Goh, M. C., etal	
	K4	20020034747	Mar-02	Bruchez	
	K5	20020039732	Apr-02	Bruchez	
	K6	20020074513	Jun-02	Abel, A. P., etal	
	K7	20020090650	Jul-02	Empedocles	
	K8	20030008323	Jan-03	Ravkin	
	K9	20030021003	Jan-03	Ono, Hroaki	
	K10	20030032203	Feb-03	Sabatini	
	K11	20030077038	Apr-03	Murashima	
	K12	20030129654	Jul-03	Ravkin	
	K13	20030138208	Jul-03	Pawlak	
	K14	20030184730	Apr-03	Murashima, K	
	K15	20040075907	Apr-04	Moon	
	K16	20040132205	Jul-04	Moon	
	K17	20040170356	Sep-04	Iazikov	
	K18	20040175842	Sep-04	Roitman, D. B., etal	
	K19	20040209376	Oct-04	Natan, M. J., etal	
	K20	20040263923	Dec-04	Moon	
	K21	20050220408	Dec-05	Putnam et al	
	K22	20050227252	Feb 24, 2005	Sailor, M. J., etal	
	K23	20050270603	Dec-05	Putnam	
	K24	20060023310	Dec 8, 2005	Putnam, M. A., etal	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	BB1	JP 08102544	16-Apr-96	Sato, yOICHI		
	BB2	GB 2 118 189	26-Oct-83	Shimadzu Corp		
	BB3	GB 2 138 821	31-Oct-84	California Institute Technology		
	BB4	GB 2 306 484	07-May-97	Univ Hertfordshire		
	BB5	WO 05/079544 A2	01-Sep-05	Sirkis, J. S., et al		
	BB6	WO 04/025563 A1	04-Mar-04	Moon, John, et al		
	BB7	WO 04/025561	25-Mar-04	Moon, J., et al		
	BB8	WO 00/37914	01-Jun-00	Fernald, Mark R.		
	BB9	WO 99/32654	01-Jul-99	Hitachi Chemical Co, LTD		
	BB10	WO 06/076053 A1	20-Jul-06	Putnam, M. A., et al		
	BB11	WO 97/015690	01-May-97	Curagen Corp.		
	BB12	WO 05/029047 A2	31-Mar-05	Putnam, M. A., et al		
	BB13	WO 05/027031 A2	24-Mar-05	Dunphy, J. R., et al		
	BB14	GB 2 319 838	03-Jun-98	Hewlett-Packard Co.		
	BB15	GB 2 299 235	25-Sep-96	Uhl, Rainer		
	BB16	EP 0 911 667 A1	28-Apr-99	Jovin, T. M., et al		
	BB17	JP 01047950	22-Feb-89	Patent Abstracts of Japan		
	BB18	WO 06/020363 A2	23-Feb-06	Moon, J. A., et al		
	BB19	WO 99/42209	26-Aug-99	TAKEDA CHEMICAL INDUSTRIES, LTD.		
	BB20	WO 00/39617	01-Jul-00	Fernald, Mark R, et al.		
	BB21	WO 91/06496	16-May-91	Autotrol Corp		
	BB22	JP 00249706	14-Sep-00	Hokuto Kagaku Sangyo, K.K. Iatron Lab.		
	BB23	DE 2416652	16-Oct-75	Flasdieck, Dierk		
	BB24	EP 0 395 300	31-Oct-90	Alcan Int, LTD		
	BB25	EP 0 485 803	20-May-92	Zeiss, Carl FA.		
	BB26	EP 0 508 257	14-Oct-92	Bayer, Ag		
	BB27	EP 0 723 149	24-Jul-96	Hitachi, LTD		

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				Application Number	10/661,836
				Filing Date	September 12, 2003
				First Named Inventor	John Moon
				Art Unit	1743
				Examiner Name	Hyun, Paul Sang Hwa
				Attorney Docket Number	IP-0018-US (830-0018US1)
Sheet	14	of	16		

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
	CC1	EP 0 798 573 A1	01-Oct-97	Wakami, T., etal	
	CC2	EP 0 972 817 A1	19-Jan-00	Hanna, J., etal	
	CC3	WO 05/050207 A3	02-Jun-05	Moon, J. A., etal	
	CC4	WO 00/37969	01-Jun-00	Fernald, Mark R.	
	CC5	WO 05/026729 A3	24-Mar-05	Li, T., etal	
	CC6	WO 97/34171	18-Sep-97	Johnson, Kenneth C.	
	CC7	WO 00/08443	17-Feb-00	Bastiaens, Philippe, etal	
	CC8	WO 97/17258	15-May-97	Glaxo Group, LTD	
	CC9	WO 97/31282	28-Aug-97	Isis Innovation	
	CC10	WO 97/12680	10-Apr-97	Sargent, Bradley J.	
	CC11	WO 05/033681 A1	14-Apr-05	Moon, J. A., etal	
	CC12	WO 96/24061	08-Aug-96	Ontogen Corp	
	CC13	WO 93/09668	27-May-93	Affymax Technology, N. V..	
	CC14	WO 99/09042	25-Feb-99	Cepheid	
	CC15	WO 98/04740	05-Feb-98	Northwestern University	
	CC16	WO 94/28119	18-Dec-94	Smithkline Beecham P.L.C	
	CC17	WO 01/90225	29-Nov-01	Washizu, Masao	
	CC18	WO 98/24549	11-Jun-98	Smithkline Beecham PLC	
	CC19	WO 99/02266	21-Jan-99	Hendrik, Sibolt Van.	
	CC20	WO 06/055736 A1	26-May-06	Moon, J. A.	
	CC21	WO 06/055735 A2	26-May-06	Kersey, A. D., etal	

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				Examiner Name	Hyun, Paul Sang Hwa
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	AA1	Burstein Technology, Inc.; Angel Strategies Tombstone	no date
	AA2	Vander Lugt, Design Relationships For Holographic Memories; Applied Optics, Vol. 12, No. 7, July 1973	
	AA3	Andrew Marshall; DNA Chips: Array of Possibilities; Nature Biotechnology Vol. 16 Jan. 1998	
	AA4	Thomas Laurell; Enhanced Enzyme Activity in Silicon Integrated Enzyme Reactors Utilizing Porous Silicon as the Coupling Matrix; Sensor & Actuators B 31 (1996) 16-166	
	AA5	Michael J. Kozal; Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene Using High-Density Oligonucleotide Arrays; Nature Medicine, Vol. 2, No. 7, July 1996	
	AA6	Masato Mitsuhashi; Gene Manipulation on Plastic Plates; Nature, Vol.357, 11JUNE1992	
	AA7	Replication & Duplication -News &Technology; Ben Beune Patent Licensing Director of Philips IP&S; Jan-Feb 2002	
	AA8	V&P Scientific; Compact Disc Arrayer 11/17/03	
	AA9	de Beer et al., Forward-scattering degenerate four-wave mixing for sensitive absorption detection in microseparation systems coupling to micro-column liquid chromatography, Journal of Chromatography A. 811 (1998) 35-45	
	AA10	Fonjallaz et al., Interferometric side diffraction technique for the characterisation of fiber gratings, 1999 OSA Conference, September 23-25	
	AA11	Kashyap R., Fiber Bragg Gratings, Academic Press, Ch. 9, pp.430-433 1999	
	AA12	Kogelnik H, Coupled Wave Theory for Thick Hologram Gratings, The Bell System Technical Journal, 48(9):2909-2947 (1969)	
	AA13	Krug P., Measurement of index modulation along an optical fiber Bragg grating, Optics Letters, 20(17):1767-1769	

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	AA14	Leith et al., Holographic Data Storage in Three-Dimensional Media, 1303-1311 August 1966 <sup>9</sup>	
	AA15	Shelia R. Nicerwarner-Peña, Submicrometer Metallic Barcodes 10/05/01	
	AA16	Ivan Oransky, Sequencing on Compact Disc? Vol. 17 / Issue 13 / 35 / Jun. 30, 2003	
	AA17	Mark O. Worthington; Curriculum Vitae 3/31/06	
	AA18	Yoshinobu Kohara, DNA Probes on Beads Arrayed in a Capillary, 'Bead-Array', Exhibited High Hybridization Performance, Nucleic Acids Research, 2002, Vol. 30, No. 16 e87	

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